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## Mole Street Journal, December 2011

University of Arkansas, Fayetteville. Dept. of Chemistry and Biochemistry

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# THE MOLE STREET JOURNAL

DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

DECEMBER 2011

VOLUME 10, ISSUE 12

## Honors Major Calls the Hogs



Willard with Boss Hog

While most students returned home for Thanksgiving, Honors College scholar and chemistry major **Brittany Willard** stayed on campus to Call the Hogs as Sue E, the female uniformed mascot.

Sue E and the other family of mascots (Big Red, Pork Chop and Boss Hog) help promote school spirit by performing mime, dance, skits and other routines at all home football, basketball (both men's and women's), volleyball and gymnastics events. All serve as ambassadors, attending charity events, greeting fans and being photographed.

Willard is a Chancellor's Scholar from Mena and is also on the Chancellor's List for maintaining a 4.0 GPA.

At Mena High School she was involved in sports and was the Bearcat mascot. When she is not on the court or studying, she is involved with the student organization Campus Crusade for Christ and plans to be a pharmacist.



Willard in uniform as Sue E

## Chen on Team to Create Honors Course

Nanotechnology holds tremendous promise for new applications in a wide range of industries, from consumer goods and electronics to medicine. Thanks to **Jingyi Chen** and a team of cross-disciplinary faculty, students in the Honors College will soon have the option of taking a course focused on nanotechnology and nanoscience.



Jingyi Chen

Chen and colleagues were awarded an Honors College curriculum development grant for a new honors course "Integrating Nanotechnology into Honors Education." Out of 21 proposals submitted, only eight were chosen to share more than \$160,000 for the creation of courses on topics ranging from digital antiquity to childhood obesity.

Other team members are Min Zou, Steve Tung and Adam Huang, mechanical engineering; Gregory Salamo, physics; Keith Roper, chemical engineering; and Jin-Woo Kim, biological engineering.

The professors collaborating on this project will engage honors undergraduates at all levels, from nanotechnology modules for freshmen and sophomore classes to hands-on research opportunities for juniors and seniors.

The course may be offered in the 2012-2013 academic year.

<http://honorscollege.uark.edu/>.

## Shinabery Wins



Spencer Shinabery

Honors College scholar **Spencer Shinabery** won an award for the best general poster presentation at the ACS Southwest Regional meeting in Austin, Nov. 10.

Shinabery's presentation on his photocatalyzed [3+2] cycloaddition research project was chosen out of 84 undergraduate posters presented.

His work in the Zheng lab was also recognized with an ACS Division of Organic Chemistry Research Fellowship.

## Faculty News

### Schäfer on Air

Distinguished Professor Emeritus **Lothar Schäfer** was featured on Deepak Chopra Radio Nov. 22. The segment "Quantum Reality and Cosmic Consciousness," focused on the revolution and world view of physics caused by quantum phenomenon.

### Research News

Research from the Heyes group and colleagues from McGill University "Probing the "Dark" Fraction of Core-Shell Quantum Dots by Ensemble and Single

Particle pH-Dependent Spectroscopy," was published in the journal *ACS Nano*. N. Durisic, A. G. Godin, **D. Walters**, P. Grutter, P. W. Wiseman, and **C. D. Heyes**. *ACS Nano*, (2011), 5, 9062-9073.

Research by the Zheng lab "Intermolecular [3+2] Cycloaddition of Cyclopropylamines with Olefins by Visible-Light Photocatalysis," authored by **Soumitra Maity, Mingzhao Zhu, Ryan Spencer Shinabery** and **Nan Zheng** has been accepted for publication by *Angewandte Chemie*.

### On the Go

**Colin Heyes** will present a seminar "Single Molecule Spectroscopy of Nanomaterial and Biomolecules: To the average and Beyond..." Dec. 1 at The University of The Ozarks.

**Nan Zheng** and graduate student **Mack Clements** presented "The Use of Visible Light Photocatalysis for Amine Synthesis," at Henderson State University Oct. 28.

## Student Affiliate Hosts Lecture

*submitted by the ACS SA*

On Wednesday October 26, the ACS Student Affiliate hosted a presentation "Chemistry of Sustainability," by Dr. Manahan, a former professor at the University of Missouri and author of *Environmental Chemistry*.

Even though Dr. Manahan was not able to attend due to personal matters, he graciously sent the PowerPoint slides with his own audio.

All of the attendees thoroughly enjoyed the presentation. They were amazed at the proposed ways different businesses can efficiently cooperate, most importantly, to reduce the impact the anthroposphere has on our planet and how companies may benefit from each other through their aid without having to significantly sacrifice monetarily.

## New Editor for the Mole

*The Mole Street Journal* was created by former chairman **Bill Durham** and **Jennifer Sims** in 2002. Since then 111 issues have been published.

Sims, who has been on campus since 1997, will be leaving the department after 10 years of service.

In January 2012, *The Mole* will feature a new format under the direction of **Bob Gawley** and **Leslie Johnson**.

## Poster Printing

Need to print a poster? **Heather Jorgensen** is the contact. Be sure to contact her, [hjorgen@uark.edu](mailto:hjorgen@uark.edu) or 575-4648, in advance to arrange a time to print.

The preferred format is either PowerPoint or PDF. Remember the paper is 42-inches wide, so the final desired size cannot exceed that dimension on one side.

## Home Notes

**Markeeta LeRay** welcomed the birth of her second great grandchild Arianna Rose Collins Nov. 21.

Baby Arianna, who weighed 5.5 pounds and was 17.5 inches long, was born to LeRay's granddaughter and grandson-in-law Meghan and Aaron Collins.



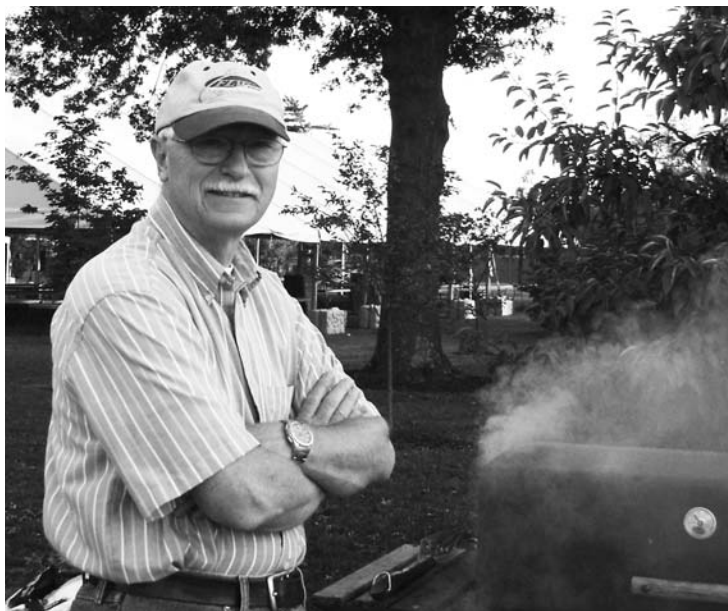
Meghan, Aaron and Arianna Collins

## Stop.Look.Then Walk.

Be sure to use crosswalks when crossing streets on campus. Drivers in Arkansas are required to stop for pedestrians in crosswalks, but pedestrians are also required to use the crosswalks under state law.

Pedestrians who use crosswalks still need to look both ways before crossing. Just because a pedestrian has the legal right of way does not mean that a driver has seen them.

## Department Picnic



Bill Durham at the grill

The annual department picnic returned to the Garden's Pavilion in October. Last year the picnic was at Agri Park, a traditional picnic spot for many departments on campus.

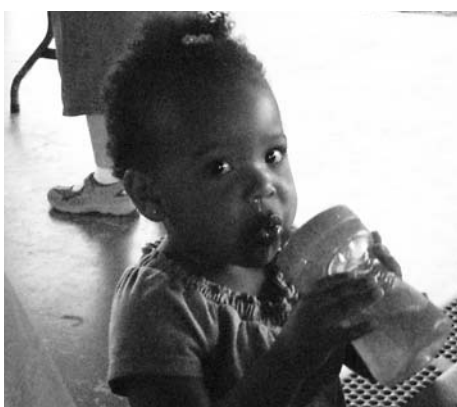
Although it was windy, there was no rain. In 2009, the picnic was postponed multiple times before it was cancelled because of significant rainfall.



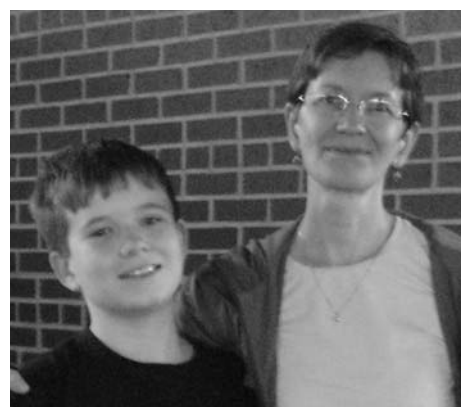
Marilyn Davis and Nicole Vanderbush



Rory Henderson with daughter Adalie. She is also the daughter of Ashley Henderson.



Haven Adams looks at the camera. She is the daughter of Paul and Stephanie Adams.



Connor Fritsch with his mom Ingrid Fritsch. He is also the son of Charlie Wilkins.



Becky Kerr and Ryan Thurman



Jeremy Durchman with son Lennon

### Safety Tip

Please be aware that there is a new on-line laboratory audit reporting procedure. Instructions for accessing the report will be provided by e-mail from the auditor

## Calendar of Events

### December

02..... CUME  
 02..... Dissertation and theses due to the Graduate School for fall graduation  
 06..... Scientific Solutions vendor show  
 08..... Last day of the fall 2011 semester and last day to officially withdraw from all full semester classes  
 09..... Dead Day - no classes  
 09..... Annual department potluck  
 12-16 ..... Final exams  
 17..... Fall commencement  
 23-31 ..... December holiday, university closed

### January

02..... University is closed for the New Year holiday  
 11-23 ..... Open registration  
 16..... University is closed in honor of the Martin Luther King holiday  
 16..... Last day to withdraw from all spring 2012 without penalty  
 17..... Classes begin for the spring 2012 semester  
 23..... Last day to register for a spring 2012 course  
 30..... Spring seminar series begins - Aaron Aponick, University of Florida  
 30..... Last day to drop a full semester course without a "W"

## Annual Holiday Potluck

The department's annual holiday potluck will be Friday Dec. 9 at noon. Bring a dish and celebrate the season.

## University to Close for Holiday

The University of Arkansas will be CLOSED for the Christmas Holiday Friday, Dec. 23 through Jan. 2. The university will reopen Tuesday, January 3.

## Organic Faculty Search

Five candidates will be on campus to interview for the organic faculty position during the next six weeks. All will give seminars on the following dates at 3:30 p.m. in CHEM 144. Reminder — all graduate students are expected to attend these seminars.

Thursday, Dec. 8	Monday, Dec. 12	Thursday, Dec. 15
Tuesday, Jan. 3	Monday, Jan. 9	

## Scientist Solutions Events Vendor Show

The Scientist Solutions Vendor Show is Tuesday, Dec. 6 from 9:30 a.m. to 11 a.m. in the Harrison Hale Lounge (CHEM 224).

## December Birthdays

04..... Evgenia Akhmetova  
 08..... Brett Spahn  
 10..... Ashley Martfeld Henderson  
 27..... Nan Zheng  
 31..... Scott Morris

*The publishing of birthdays is not intended to invade the privacy of anyone. If you prefer not to be included, please let us know.*

## Library Hours

CHBC Library (CHEM 225)  
<http://libinfo.uark.edu/chemistry>  
 575-2557

### Fall hours

Monday - Thursday.... 8 a.m. to 9 p.m.  
 Friday ..... 8 a.m. to 6 p.m.  
 Saturday - Sunday ..... CLOSED

### Interim Hours (Dec. 17 - Jan. 17)

Saturday - Sunday ..... CLOSED  
 Dec. 19 - 22 ..... 8 a.m. to 5 p.m.  
 Dec. 23 - Jan. 2 ..... CLOSED  
 Jan. 3 - 6 ..... 8 a.m. to 5 p.m.  
 Jan. 9 - 13 ..... 8 a.m. to 5 p.m.  
 Jan. 16 ..... CLOSED

Spring hours begin Jan. 17

*Note: the CHBC library will be closed Saturdays and Sundays this fall.*

*The department of chemistry and biochemistry at the University of Arkansas strives for excellence in research, teaching and service in chemistry — the central science.*

*We aspire to positions of leadership regarding the discovery of new scientific knowledge, the training of students, and the economic development of the State of Arkansas.*

*We seek to recruit and retain a diverse group of the best faculty, students and staff to address the challenges of the future through interdisciplinary and multidisciplinary research and education.*